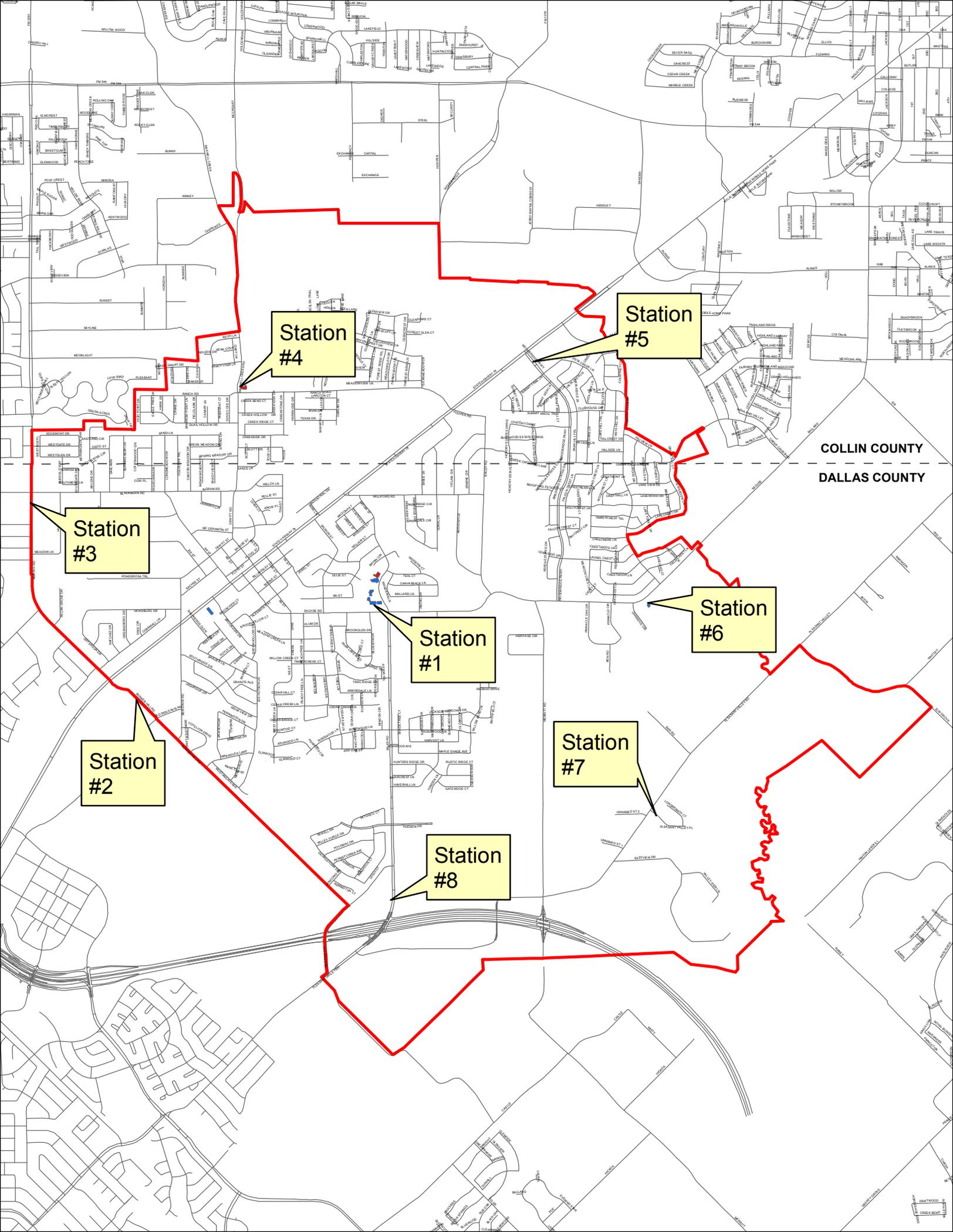


P.O. BOX 2109 FORNEY TX. 75126

PHONE (972) 564-4416 FAX (972) 564-4428



Station #4

Station #5

Station #3

Station #1

Station #6

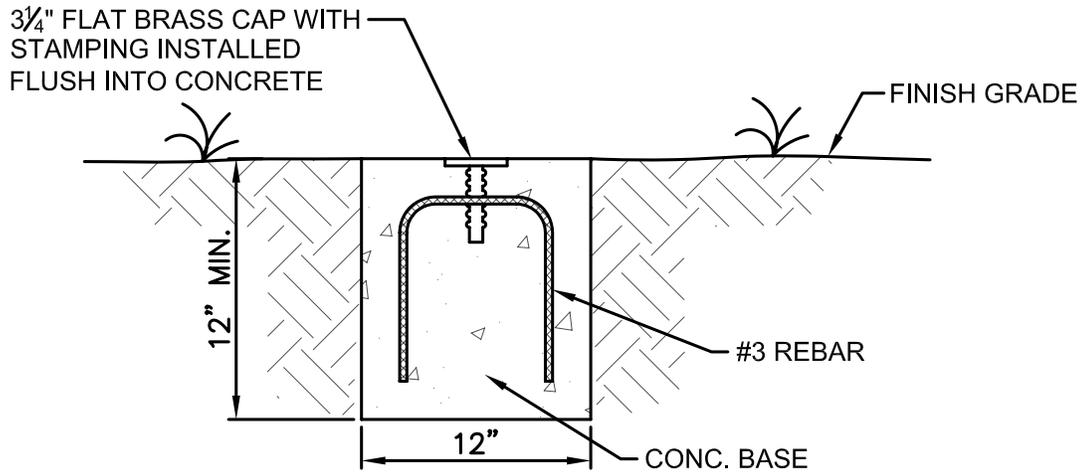
Station #2

Station #7

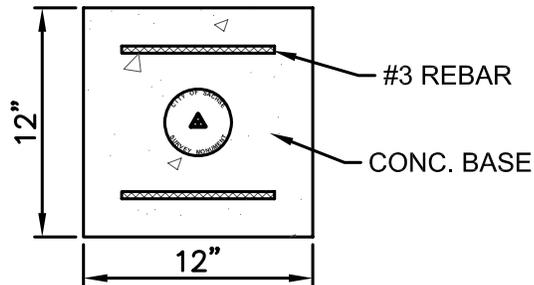
Station #8

COLLIN COUNTY
DALLAS COUNTY

STANDARD SACHSE MONUMENT DETAIL



ELEVATION



TOP



CAP

CITY OF SACHSE, TEXAS
DEPARTMENT OF ENGINEERING
STANDARD CONSTRUCTION DETAILS

STANDARD SACHSE MONUMENT DETAIL

APPROVED:

DATE: MARCH 2012

REVISED:

Page 1

CITY OF SACHSE GPS MONUMENTATION METADATA

HORIZONTAL DATUM

The datum used for the City of Sachse GPS monuments is NAD 83(2011) (EPOCH:2010.0000).

PROJECTION

The projection used is the Texas North Central Zone (4202) State Plane projection. City of Sachse units are U.S. Survey Feet.

VERTICAL DATUM

The vertical datum used is NAVD 88. Orthometric elevations for monuments were derived using GEOID12A.

RECOMMENDED COMBINED SCALE FACTOR

The published coordinates for all of the monuments in the system are GRID values. To convert distances measured on the topographic surface to grid distances, it is recommended that a standardized city-wide COMBINED SCALE FACTOR OF 0.999852606 is used. The COMBINED SCALE factor is the product of the Scale Factor at a given location and the Ellipsoid Reduction factor which is computed from the height above ellipsoid of the point. For the City of Sachse, the overall COMBINED SCALE FACTOR was computed by an average of all of the monuments individual combined scale factor.

PROJECT SUMMARY

In summary, Maddox Surveying & Mapping established 8 monument locations using a minimum of 4 hour Static Observation on each point and the data was submitted to and computed by the National Geodetic Survey (NGS) Online Positioning User Service (OPUS). The data was submitted in September 2012.

Data sheets for the monuments and standard City of Sachse Monument detail sheets are attached.

CITY OF SACHSE

GPS CONTROL SHEET

ESTABLISHED BY:

MADDOX SURVEYING & MAPPING, INC.

STATION NUMBER 1

STATE PLANE COORDINATES NAD '83 TEXAS NORTH CENTRAL

GRID VALUES (FEET)	
NORTHING	7042486.161
EASTING	2555904.871
NAVD 88 ELEV	527.23

GEODETIC POSITION

LATITUDE	32 58 24.8383
LONGITUDE	96 35 03.7788

COMMENTS: 4 HOURS OF STATIC DATA RECORDED.
START: 9:00 AM END: 1:00 PM

DATE RECORDED: 09/10/12

CSF = 0.999852606

NAD 83 ELLIPSOIDAL HEIGHT (METERS) 135.008

NAVD 88 ORTHOMETRIC HEIGHT (METERS) 160.701

MAPSCO PAGE NO.

10-T

DALLAS COUNTY

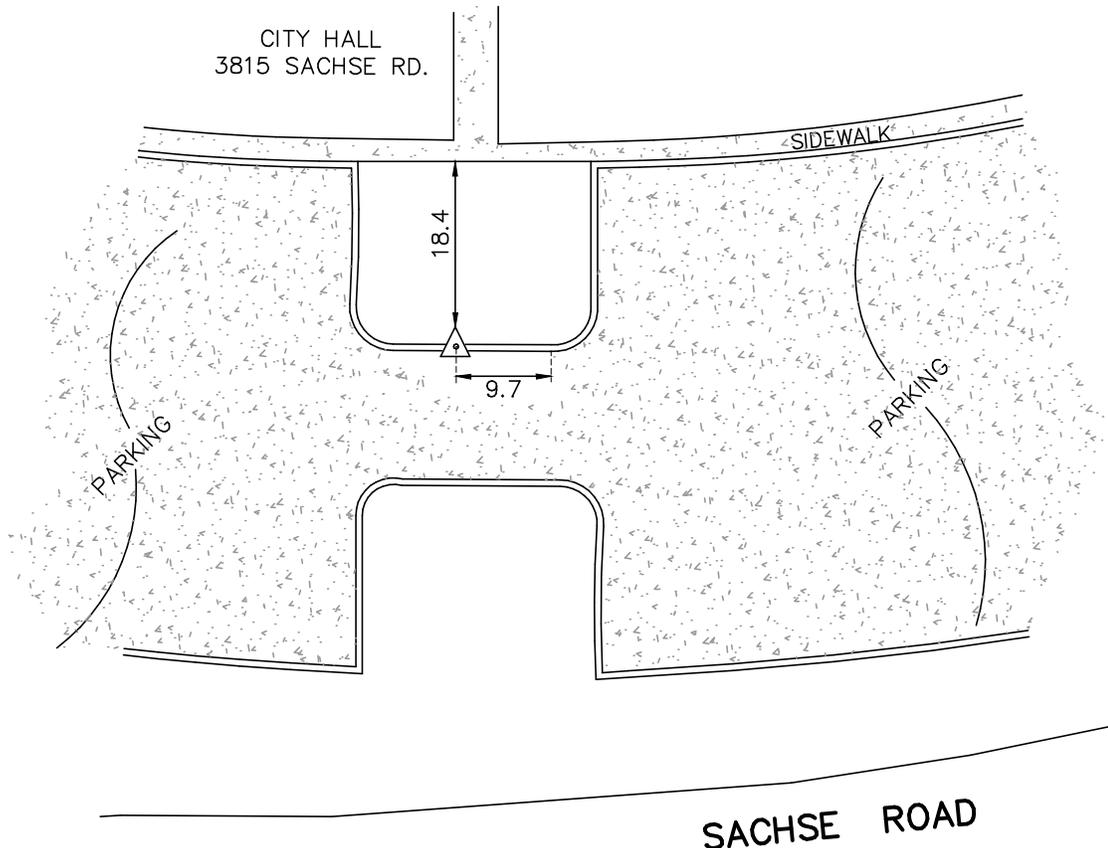
STATE OF TEXAS

DESCRIPTION:

Brass disk stamped "CITY OF SACHSE SURVEY MONUMENT" on a top of curb at Sachse City Hall located near the intersection of Sachse Road and Bryan Street.



N.T.S.



STATION NUMBER 1





MALLA

BRYAN ST

Station #1
Located on the top of curb at
the new city hall.

SACHSE RD

BLOSSOM DR

MILES RD

CITY OF SACHSE

GPS CONTROL SHEET

ESTABLISHED BY:
MADDOX SURVEYING & MAPPING, INC.

STATION NUMBER 2

**STATE PLANE COORDINATES NAD '83
TEXAS NORTH CENTRAL**

GRID VALUES (FEET)	
NORTHING	7040302.241
EASTING	2549521.784
ORTHO ELEVATION	527.22

GEODETIC POSITION

LATITUDE	32 58 04.3769
LONGITUDE	96 36 19.1633

COMMENTS: 4 HOURS OF STATIC DATA RECORDED.
START: 9:20 AM END: 1:20 PM

DATE RECORDED: 09/10/12 CSF = 0.999852606

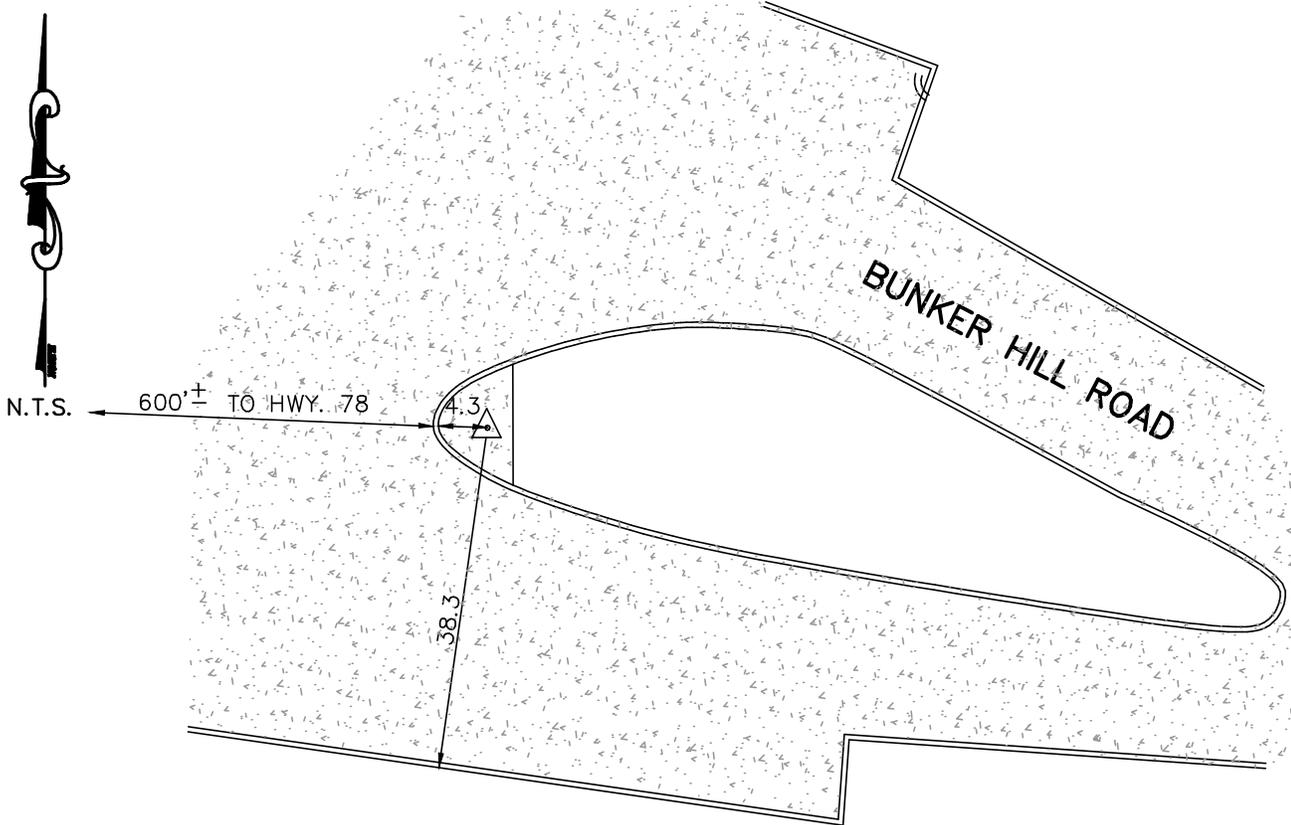
NAD 83 ELLIPSOIDAL HEIGHT (METERS) 134.947
NAVD 88 ORTHOMETRIC HEIGHT (METERS) 160.699

MAPSCO PAGE NO.
9A-V

DALLAS COUNTY
STATE OF TEXAS

DESCRIPTION:

Brass disk stamped "CITY OF SACHSE SURVEY MONUMENT" near the westerly nose of the third island east of State Highway 78. Said monument being approximately 600 feet east of the centerline of State Highway 78.



STATION NUMBER 2





STATE HIGHWAY 78

STATE HIGHWAY 78

BUNKER HILL RD

Station #2
Located on Bunker Hill Rd
in median nose.

CITY OF SACHSE

GPS CONTROL SHEET

ESTABLISHED BY:

MADDOX SURVEYING & MAPPING, INC.

STATION NUMBER 3

STATE PLANE COORDINATES NAD '83 TEXAS NORTH CENTRAL

GRID VALUES (FEET)	
NORTHING	7045289.958
EASTING	2546957.039
ORTHO ELEVATION	553.64

GEODETIC POSITION

LATITUDE	32 58 54.1802
LONGITUDE	96 36 48.2139

COMMENTS: 4 HOURS OF STATIC DATA RECORDED.
START: 9:08 AM END: 1:08 PM

DATE RECORDED: 09/11/12

CSF = 0.999852606

NAD 83 ELLIPSOIDAL HEIGHT (METERS) 142.981

NAVD 88 ORTHOMETRIC HEIGHT (METERS) 168.751

MAPSCO PAGE NO.

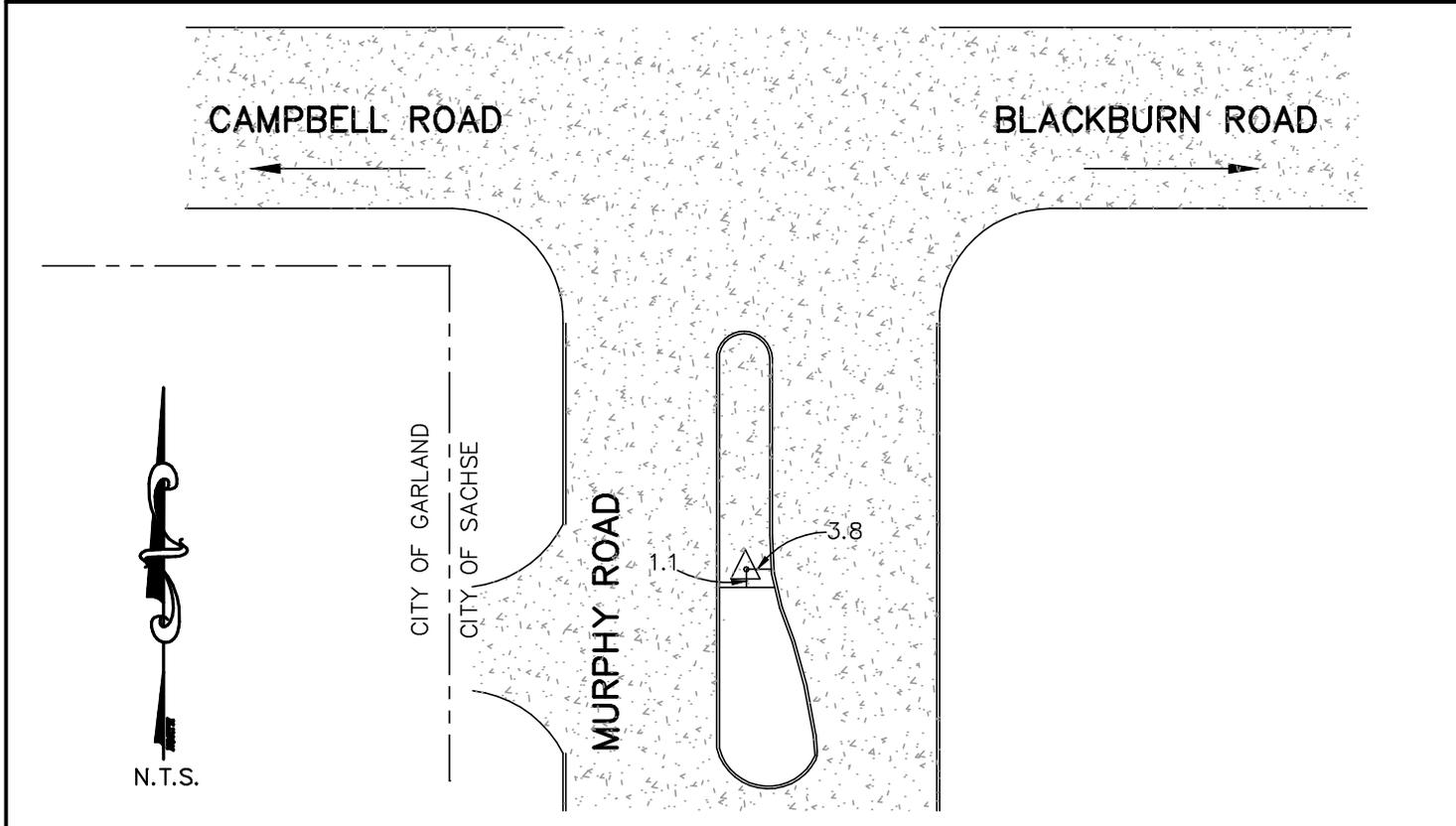
9A-Q

DALLAS COUNTY

STATE OF TEXAS

DESCRIPTION:

Brass disk stamped "CITY OF SACHSE SURVEY MONUMENT" located on the first island to the south of the intersection of Murphy Road and Campbell/Blackburn Road. Said monument being approximately 200 feet from the centerline of Campbell/Blackburn Road.



STATION NUMBER 3



BLACKBURN RD

Station #3
Located on Murphy Rd
in median.

MURPHY RD



CITY OF SACHSE

GPS CONTROL SHEET

ESTABLISHED BY:

MADDOX SURVEYING & MAPPING, INC.

STATION NUMBER 4

STATE PLANE COORDINATES NAD '83 TEXAS NORTH CENTRAL

GRID VALUES (FEET)	
NORTHING	7048321.399
EASTING	2552361.201
ORTHO ELEVATION	550.61

GEODETIC POSITION

LATITUDE	32 59 23.2073
LONGITUDE	96 35 44.1312

COMMENTS: 4 HOURS OF STATIC DATA RECORDED.
START: 9:30 AM END: 1:30 PM

DATE RECORDED: 09/11/12

CSF = 0.999852606

NAD 83 ELLIPSOIDAL HEIGHT (METERS) 142.108

NAVD 88 ORTHOMETRIC HEIGHT (METERS) 167.826

MAPSCO PAGE NO.

10-J

DALLAS COUNTY

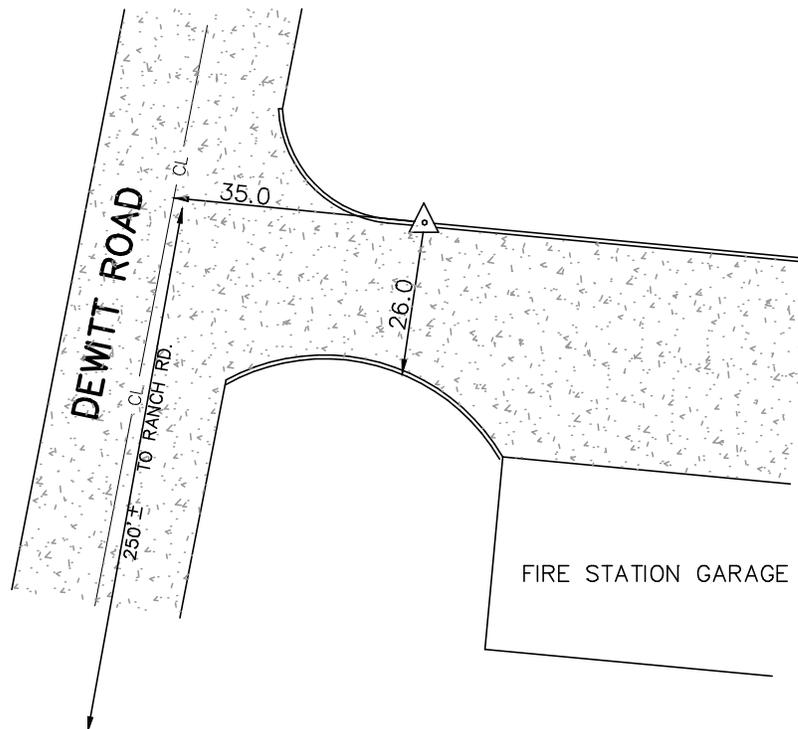
STATE OF TEXAS

DESCRIPTION:

Brass disk stamped "CITY OF SACHSE SURVEY MONUMENT" located on the top of curb on the northerly curb line of the westerly drive into Sachse Fire Station Number 2. Said monument being approximately 250 feet north of the centerline of Ranch road, and approximately 35 feet east of the centerline of Dewitt Road.



N.T.S.



STATION NUMBER 4



MAXWELL CREEK RD

Station #4
Located at Fire Station #2
on top of curb.

RANCH RD

DEWITT RD



CITY OF SACHSE

GPS CONTROL SHEET

ESTABLISHED BY:

MADDOX SURVEYING & MAPPING, INC.

STATION NUMBER 5

STATE PLANE COORDINATES NAD '83 TEXAS NORTH CENTRAL

GRID VALUES (FEET)	
NORTHING	7048817.159
EASTING	2560036.658
ORTHO ELEVATION	517.15

GEODETIC POSITION

LATITUDE	32 59 26.7263
LONGITUDE	96 34 13.9169

COMMENTS: 4 HOURS OF STATIC DATA RECORDED.
START: 1:27 PM END: 5:53 PM

DATE RECORDED: 09/11/12

CSF = 0.999852606

NAD 83 ELLIPSOIDAL HEIGHT (METERS) 131.973
NAVD 88 ORTHOMETRIC HEIGHT (METERS) 157.629

MAPSCO PAGE NO.
10-L

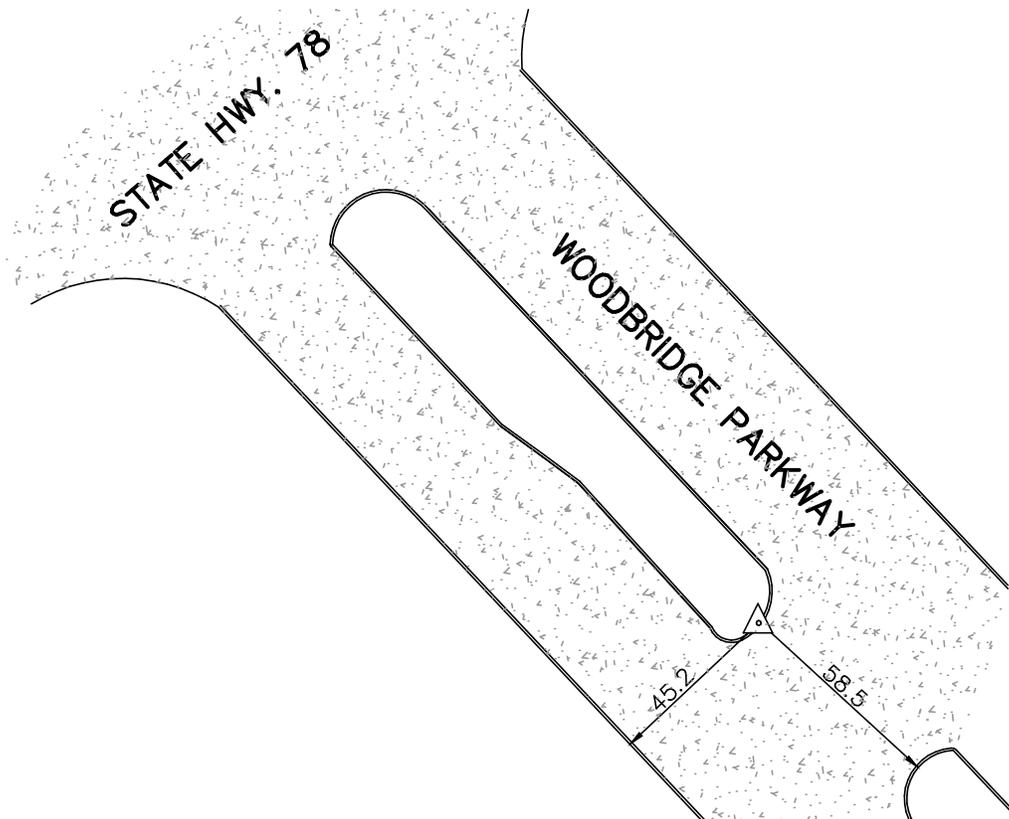
DALLAS COUNTY
STATE OF TEXAS

DESCRIPTION:

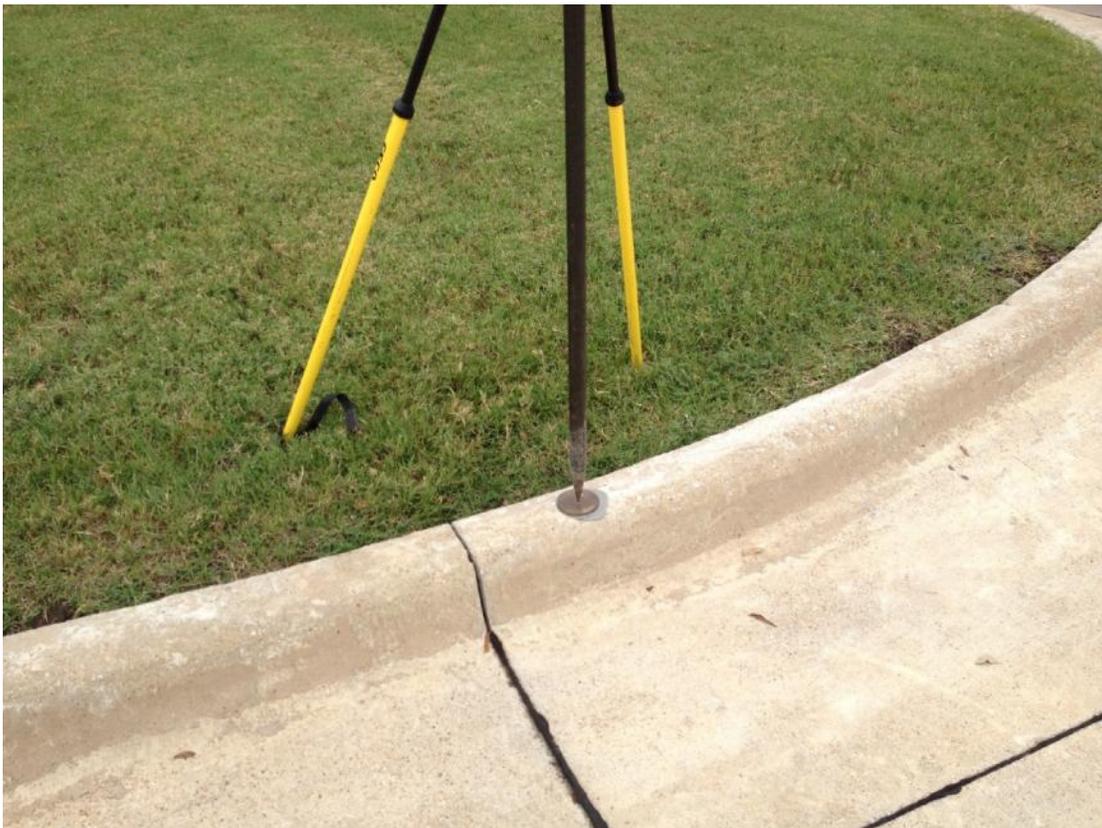
Brass disk stamped "CITY OF SACHSE SURVEY MONUMENT" located on the the top of curb at the southeasterly nose of the first island on Woodbridge Parkway from State Highway 78. Said monument being approximately 420 feet southeast of State Highway 78.



N.T.S.



STATION NUMBER 5





STATE HIGHWAY 78

STATE HIGHWAY 78

WOODBIDGE PKWY

Station #5
Located in Woodbridge Pkwy
median on top of curb.

CITY OF SACHSE

GPS CONTROL SHEET

ESTABLISHED BY:

MADDOX SURVEYING & MAPPING, INC.

STATION NUMBER 6

STATE PLANE COORDINATES NAD '83 TEXAS NORTH CENTRAL

GRID VALUES (FEET)	
NORTHING	7042693.785
EASTING	2562997.331
ORTHO ELEVATION	517.81

GEODETIC POSITION

LATITUDE	32 58 25.6051
LONGITUDE	96 33 40.4861

COMMENTS: 4 HOURS OF STATIC DATA RECORDED.
START: 2:00 PM END: 6:00 PM

DATE RECORDED: 09/11/12

CSF = 0.999852606

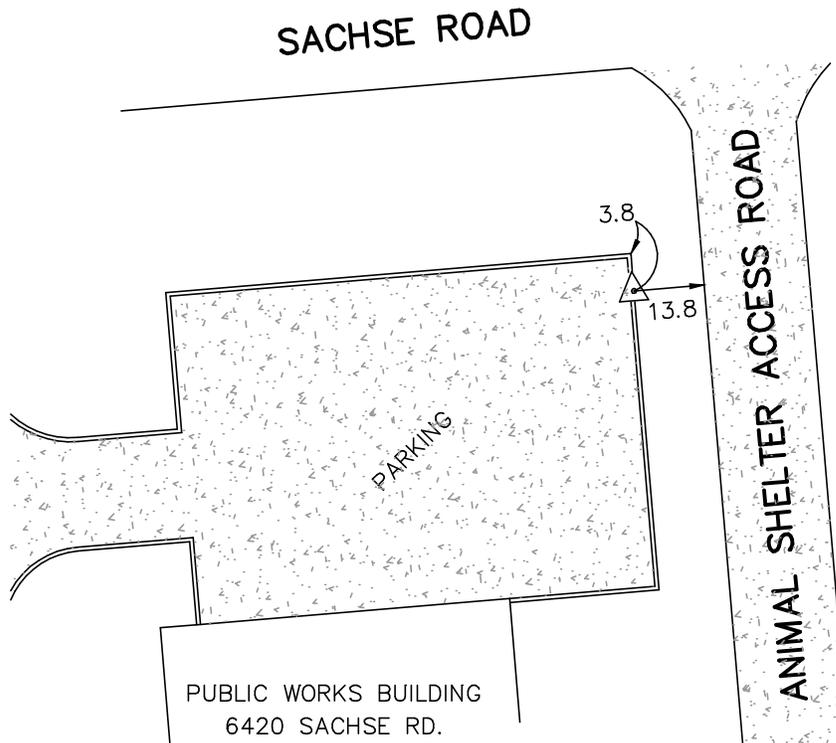
NAD 83 ELLIPSOIDAL HEIGHT (METERS) 132.193
NAVD 88 ORTHOMETRIC HEIGHT (METERS) 157.830

MAPSCO PAGE NO.
10-V

DALLAS COUNTY
STATE OF TEXAS

DESCRIPTION:

Brass disk stamped "CITY OF SACHSE SURVEY MONUMENT" located on the top of curb near the north corner of the City of Sachse Public Works parking lot. Said monument being approximately 100 feet southeast of the centerline of Sachse Road.



STATION NUMBER 6



OW CRES

SACHSE RD

Station #6
Located at Sachse Public Works Dept.
parking lot on top of curb.



CITY OF SACHSE

GPS CONTROL SHEET

ESTABLISHED BY:

MADDOX SURVEYING & MAPPING, INC.

STATION NUMBER 7

STATE PLANE COORDINATES NAD '83 TEXAS NORTH CENTRAL

GRID VALUES (FEET)	
NORTHING	7037162.543
EASTING	2563096.091
ORTHO ELEVATION	465.92

GEODETIC POSITION

LATITUDE	32 57 30.8634
LONGITUDE	96 33 40.5252

COMMENTS: 4 HOURS OF STATIC DATA RECORDED.
START: 9:25 AM END: 1:25 PM

DATE RECORDED: 09/17/12

CSF = 0.999852606

NAD 83 ELLIPSOIDAL HEIGHT (METERS) 116.372

NAVD 88 ORTHOMETRIC HEIGHT (METERS) 142.012

MAPSCO PAGE NO.

20-D

DALLAS COUNTY

STATE OF TEXAS

DESCRIPTION:

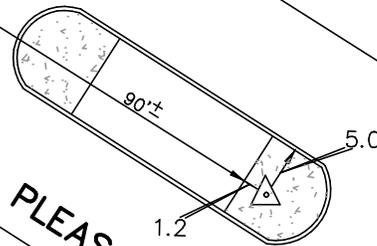
Brass disk stamped "CITY OF SACHSE SURVEY MONUMENT" located on the southeast portion of the first island on Pleasant Valley Place near the intersection of Pleasant Valley Road and Pleasant Valley Place. Said monument being approximately 75 feet from the centerline of Pleasant Valley Road.



N.T.S.

PLEASANT VALLEY ROAD

PLEASANT VALLEY PLACE



STATION NUMBER 7





PLEASANT VALLEY RD

LONGBRANC

Station #7
Located on Pleasant Valley Pl.
in median nose.

PLEASANT VALLEY PL

UNNAMED ST 2

CITY OF SACHSE

GPS CONTROL SHEET

ESTABLISHED BY:

MADDOX SURVEYING & MAPPING, INC.

STATION NUMBER 8

STATE PLANE COORDINATES NAD '83 TEXAS NORTH CENTRAL

GRID VALUES (FEET)	
NORTHING	7035019.693
EASTING	2556345.763
ORTHO ELEVATION	519.94

GEODETIC POSITION

LATITUDE	32 57 10.8885
LONGITUDE	96 35 00.2029

COMMENTS: 4 HOURS OF STATIC DATA RECORDED.
START: 9:10 AM END: 1:10 PM

DATE RECORDED: 09/10/12

CSF = 0.999852606

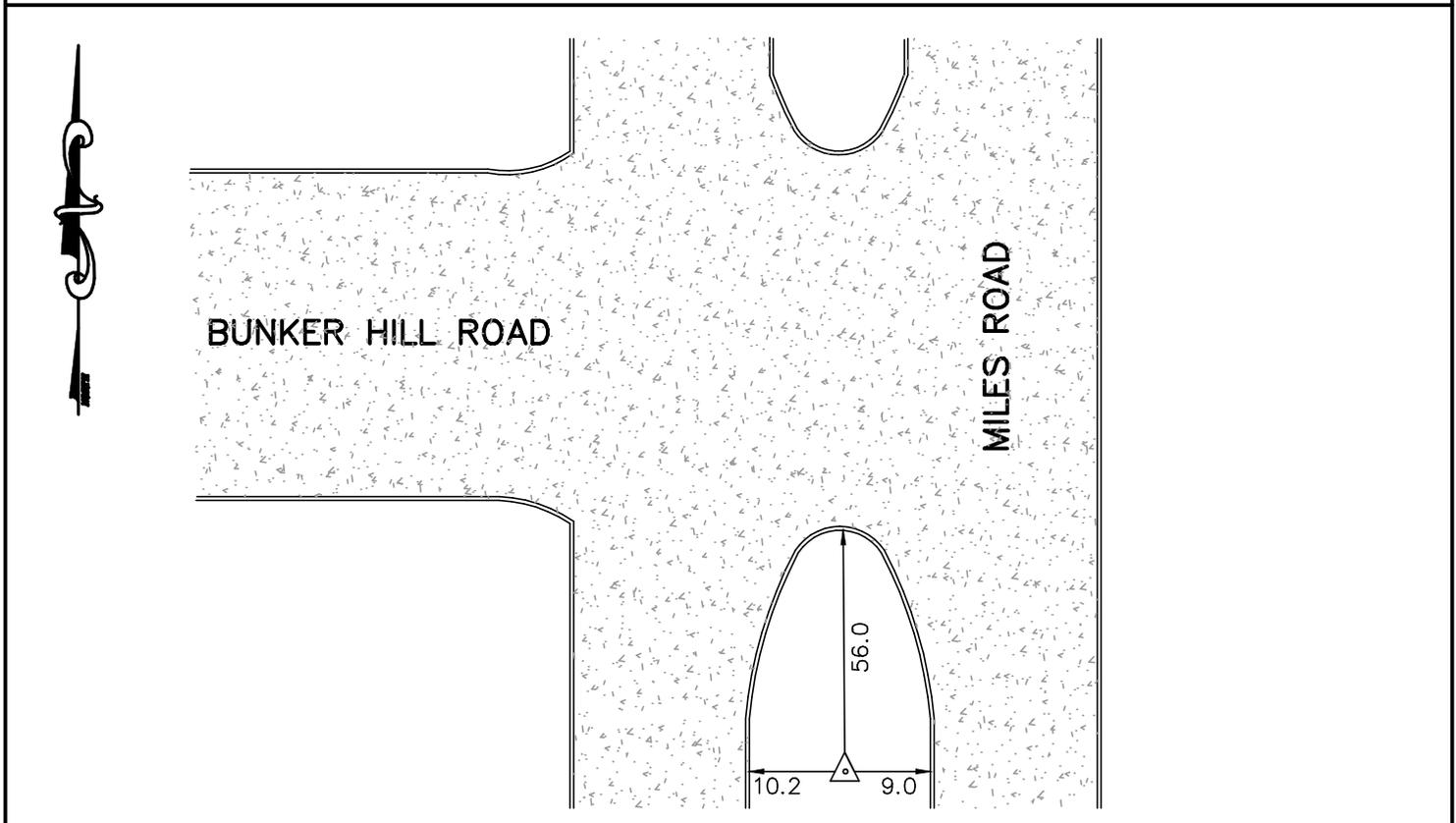
NAD 83 ELLIPSOIDAL HEIGHT (METERS) 132.780
NAVD 88 ORTHOMETRIC HEIGHT (METERS) 158.477

MAPSCO PAGE NO.
20-B

DALLAS COUNTY
STATE OF TEXAS

DESCRIPTION:

Brass disk stamped "CITY OF SACHSE SURVEY MONUMENT" located on the northerly portion of the first island south of the intersection of Miles Road and Bunker Hill Road. Said monument being approximately 100 feet from the centerline intersection of Miles Road and Bunker Hill Road.



STATION NUMBER 8





MILES RD

MILES RD

Station #8
Located on Miles Rd. in
median at the new
Bunker Hill Rd. intersection.